

1/62

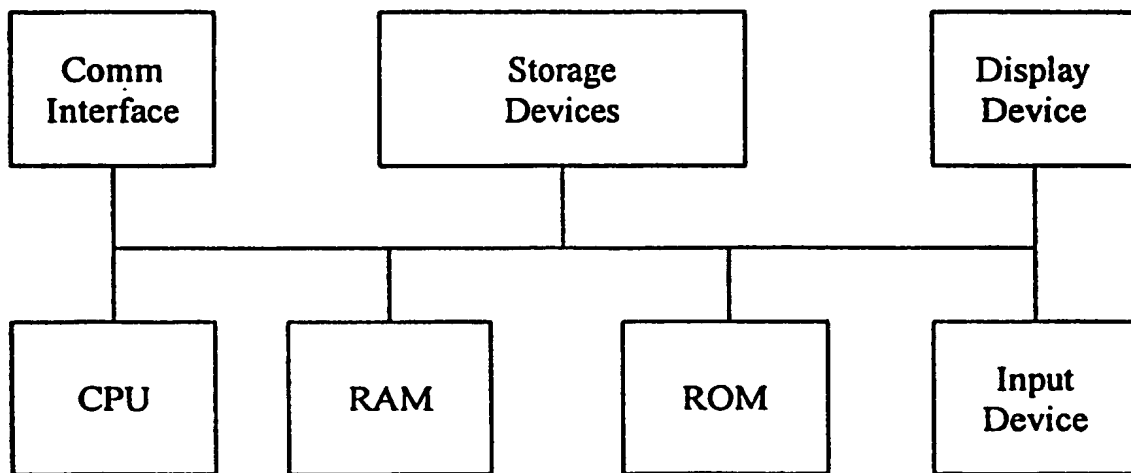


FIG. 1A

2/62

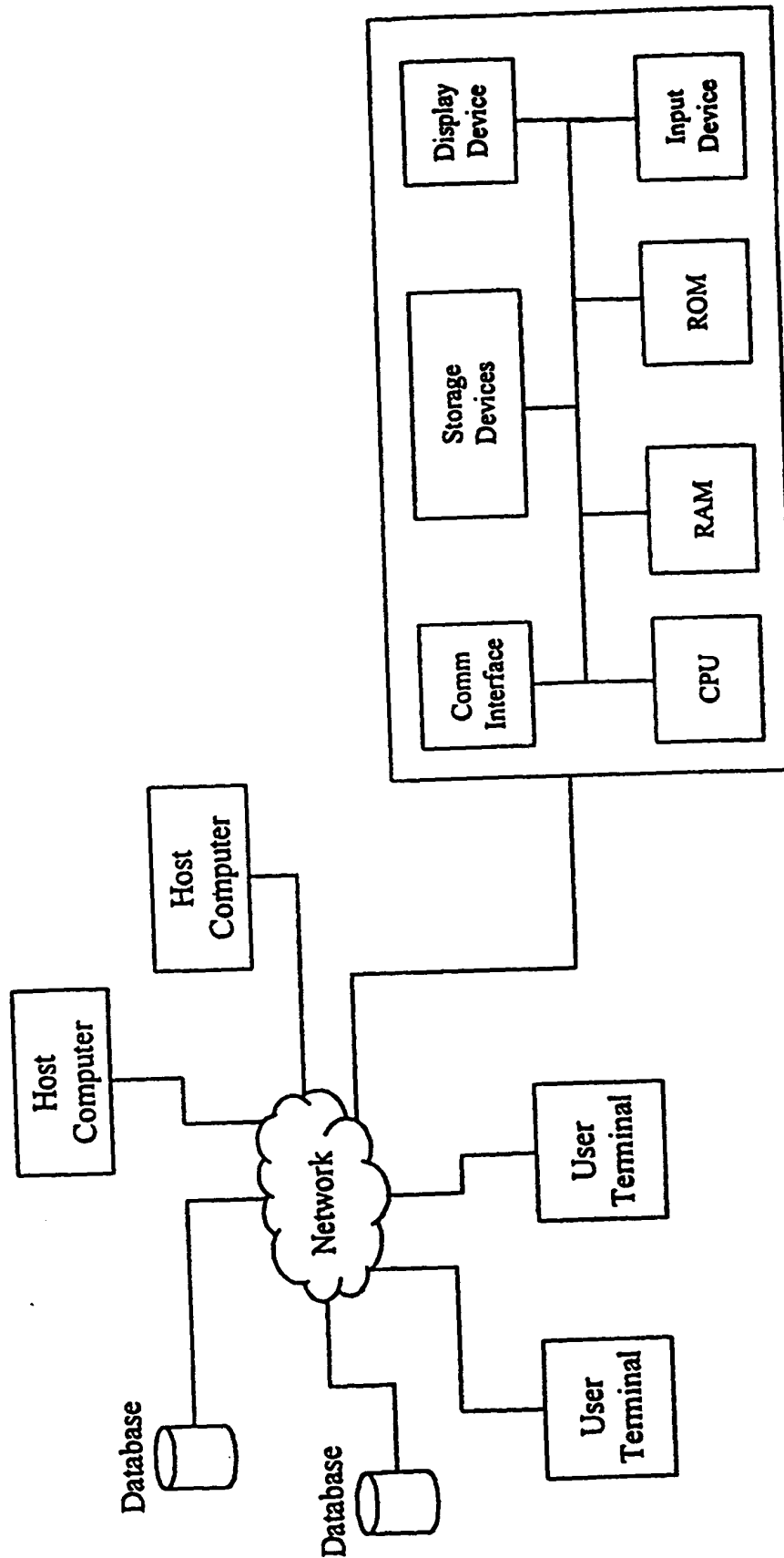
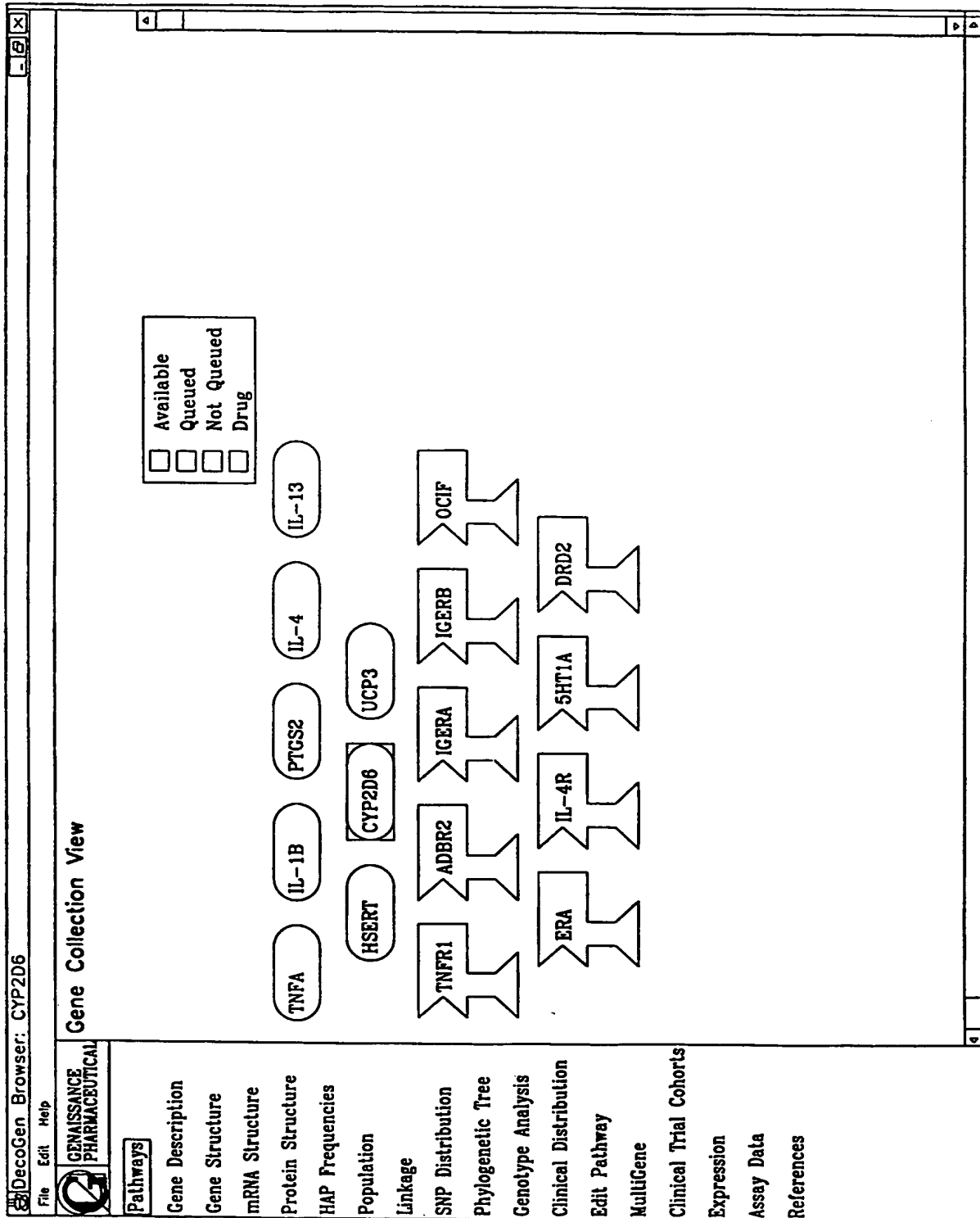


FIG. 1B

3/62

FIG. 2



4/62

FIG. 3

DecoGen Browser: CYP2D6

File Edit Help

**GENVAISSANCE PHARMACEUTICAL**

Pathways

**Gene Description**

Gene Structure

mRNA Structure

Protein Structure

HAP Frequencies

Population

Linkage

SNP Distribution

Phylogenetic Tree

Genotype Analysis

Clinical Distribution

Edit Pathway

MultiGene

Clinical Trial Cohorts

Expression

Assay Data

References

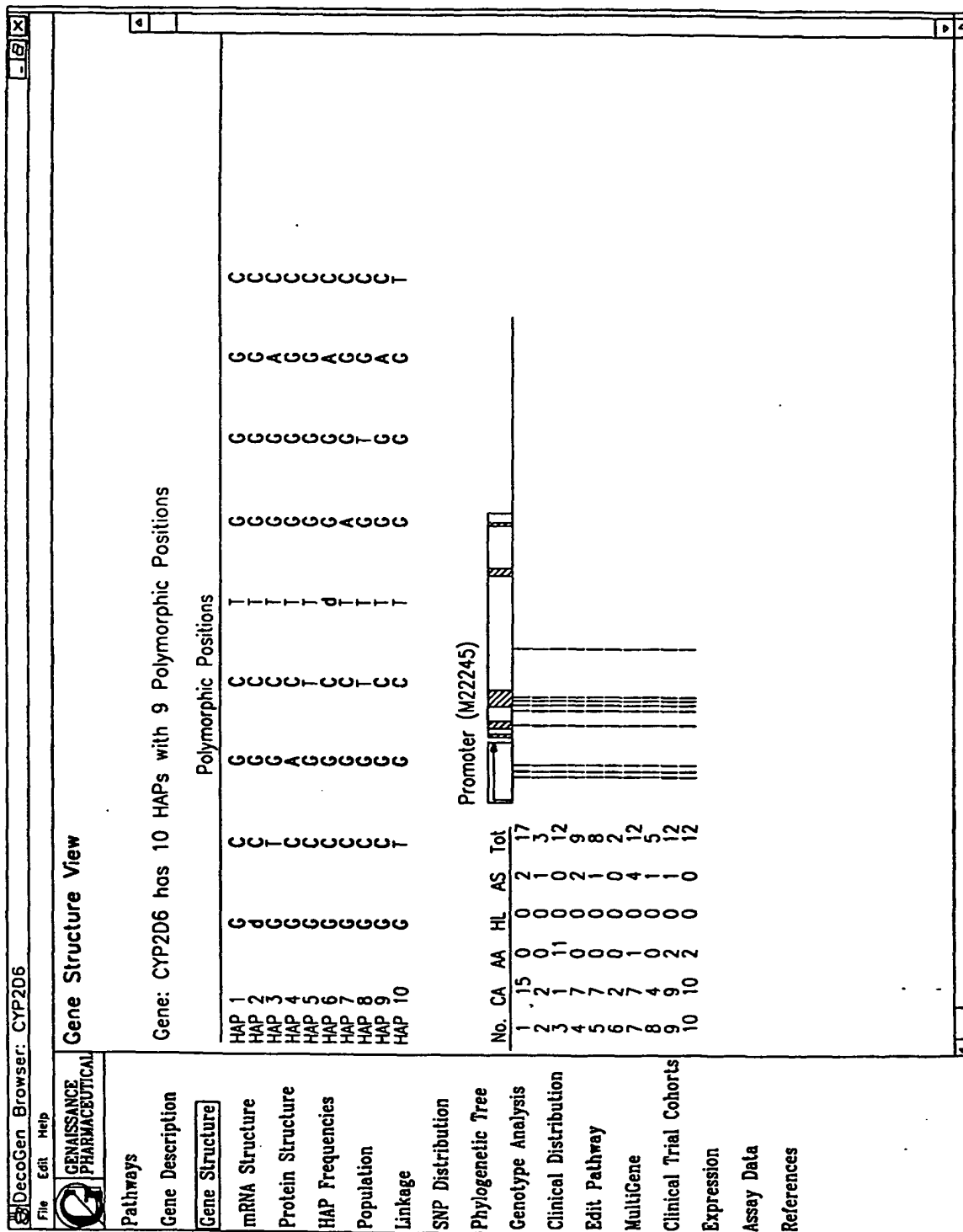
**Gene Description View**

Name	CYP2D6
Definition	Human cytochrome P450 IID6 (CYP2D6) gene
Function	Metabolic enzyme
Organism	Homo Sapiens
Length	9432
No Features	13
Population Size	46
No. Haplotypes	10
Nucleotide Polymorphism (theta)	5.6E-4 +/- 3.1E-4
Nucleotide Diversity (pi)	2.8E-4 +/- 1.8E-4

SUBSTITUTE SHEET (RULE 26)

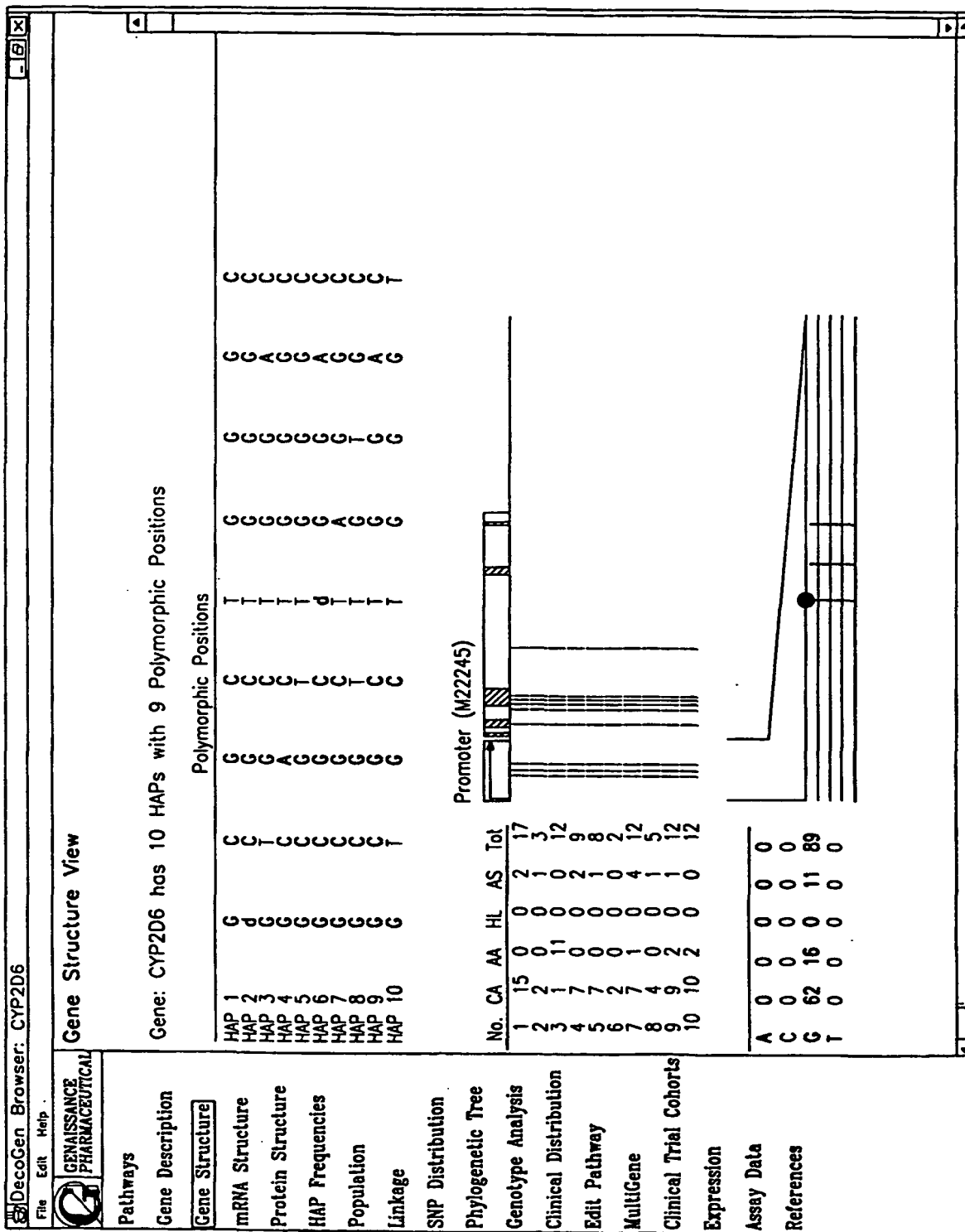
5/62

FIG. 4a



6/62

FIG. 4b



7/62

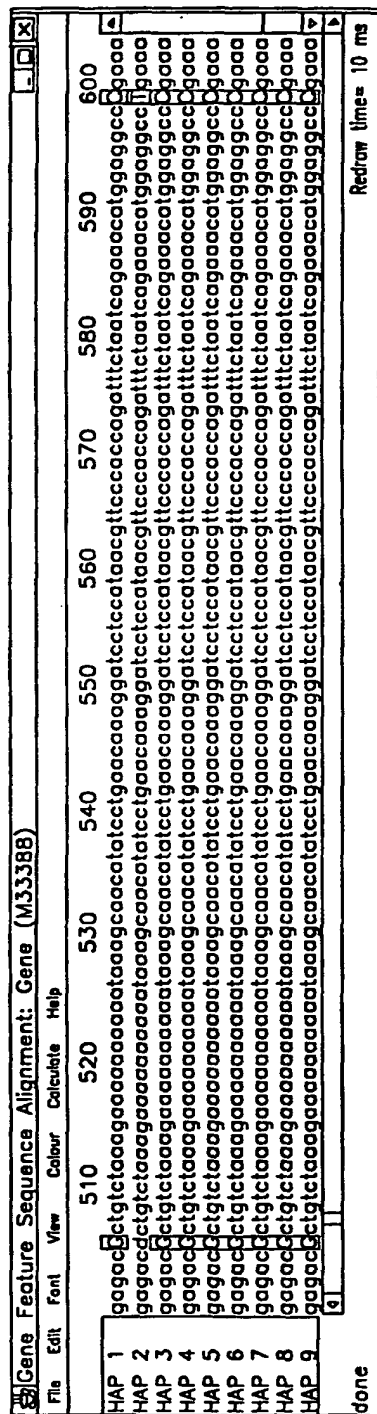
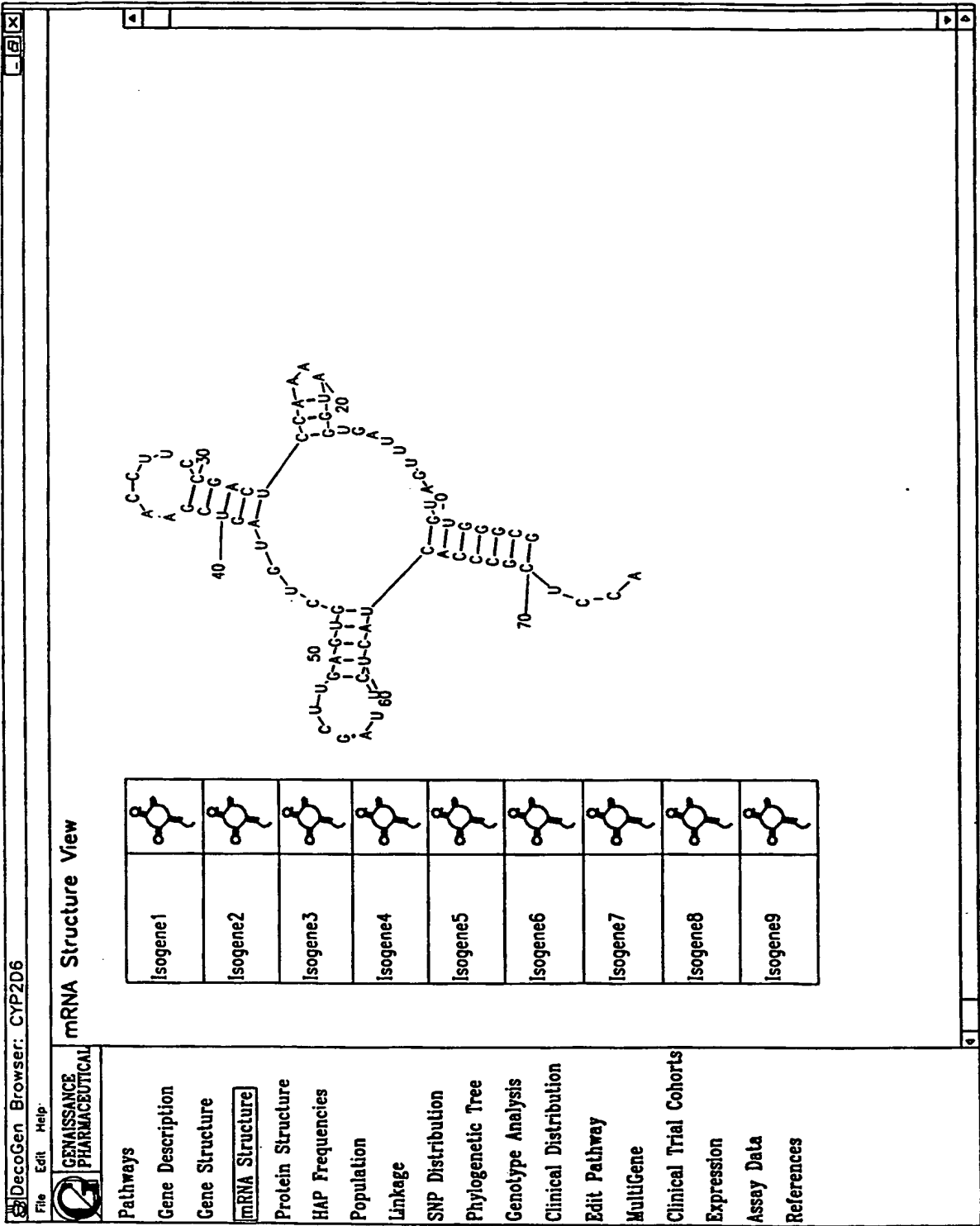


FIG. 5

8/62

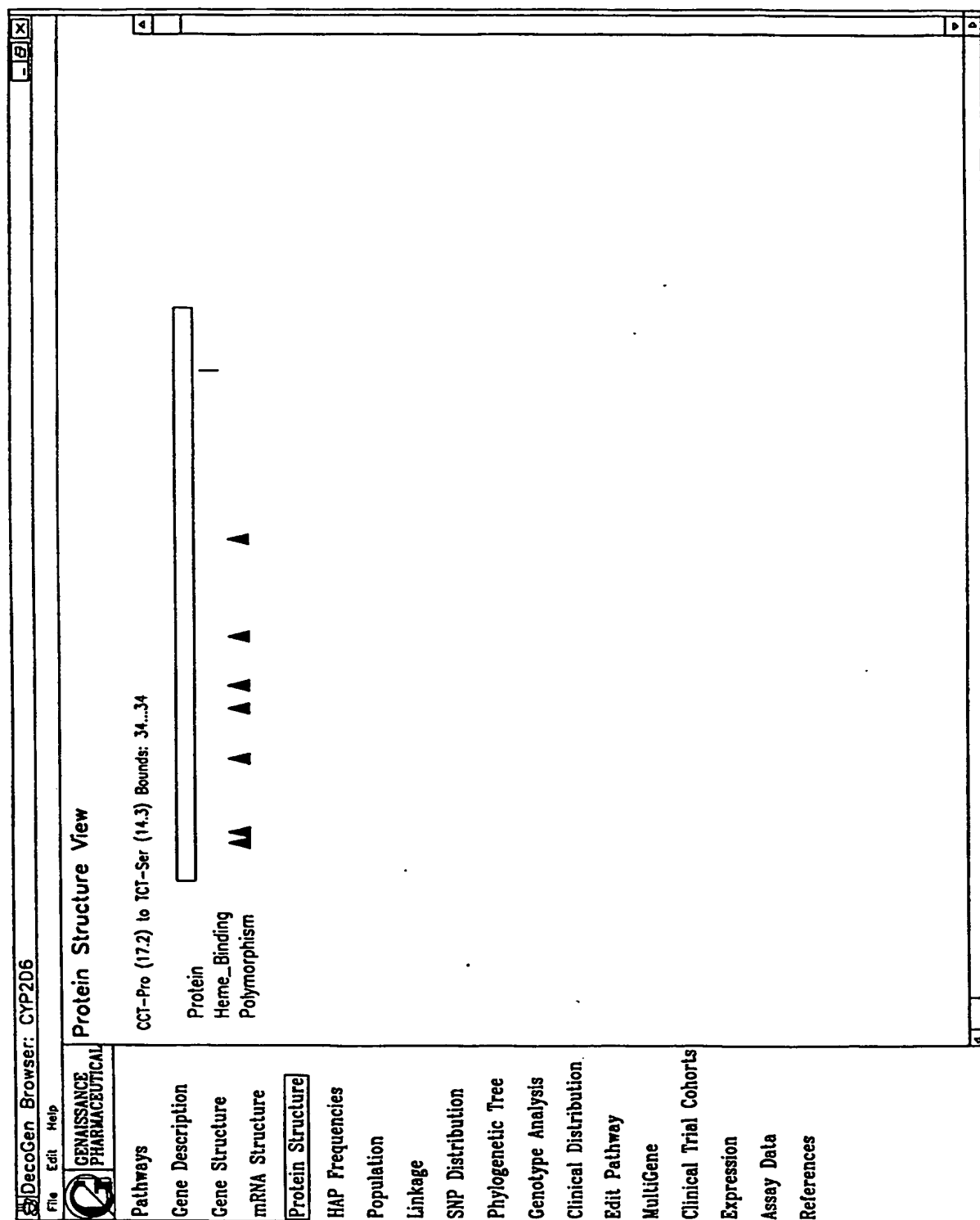
FIG. 6





9/62

FIG. 7



10/62

FIG. 8

DecoGen Browser: CYP2D6									
File Edit Help									
GENAISSANCE PHARMACEUTICAL									
Population View									
Pathways	PID	Ethnicity	Age	Gender	HAP 1	HAP 2	Test		
Gene Description	UP070	CA	99	F	GGCTGGGC	GGCTGGGC	0.1		
Gene Structure	UP072	CA	99	F	dCGCTGGGC	GGCTGGGC	0.2		
mRNA Structure	UP074	CA	99	F	GGCTGGGC	GGCTGGGC	0.2		
Protein Structure	UP132	CA	99	M	GTGCTGGGT	GTGCTGGGT	0.3		
HAP Frequencies	UP133	CA	99	M	GGCTGGGC	GTGCTGGGT	0.2		
Population	UP134	CA	99	F	GGCTGGGC	GGCTGGGC	0.1		
Linkage	UP137	CA	99	M	GTGCTGGGT	GTGCTGGGT	0.1		
SNP Distribution	UP009	CA	99	F	GGCTGGGC	GGCTGGGC	0.1		
Phylogenetic Tree	UP014	CA	99	F	dCGCTGGGC	GGCTGGGC	0.3		
Genotype Analysis	UP020	CA	99	F	GTGCTGGGT	GTGCTGGGT	0.2		
Clinical Distribution	UP021	CA	99	M	GGCTGGGC	GGCTGGGC	0.4		
Edit Pathway	UP022	CA	99	M	GGCTGGGC	GGCTGGGC	0.3		
MultiGene	OR001	AS	99	M	dCGCTGGGC	GGCTGGGC	0.2		
Clinical Trial Cohorts	OR002	AS	99	M	GGCTGGGC	GGCTGGGC	0.3		
Expression	OR004	AS	99	F	GGCTGGGC	GGCTGGGC	0.2		
Assay Data	OR006	AS	99	F	GGCTGGGC	GGCTGGGC	0.1		
References	WT003	CA	99	F	GGCTGGGC	GGCTGGGC	0.2		
	WT005	CA	99	M	GGCTGGGC	GGCTGGGC	0.2		
	WT007	CA	99	M	GGCTGGGC	GGCTGGGC	0.4		
	UP012	CA	99	F	GGCTGGGC	GGCTGGGC	0.1		
	UP135	CA	99	M	GGCTGGGC	GGCTGGGC	0.2		